



# State Trauma Registry Report

2019 Data compiled from current patient records reported from ten facilities to LERN State Trauma Registry. Includes standard dataset established by National Trauma Data Bank (NTDB)

Figure 1: Age Distribution

Patients reported by age group. Highest patient population lies in the age range 25 – 34 years old. This is also the highest patient population on a national level.

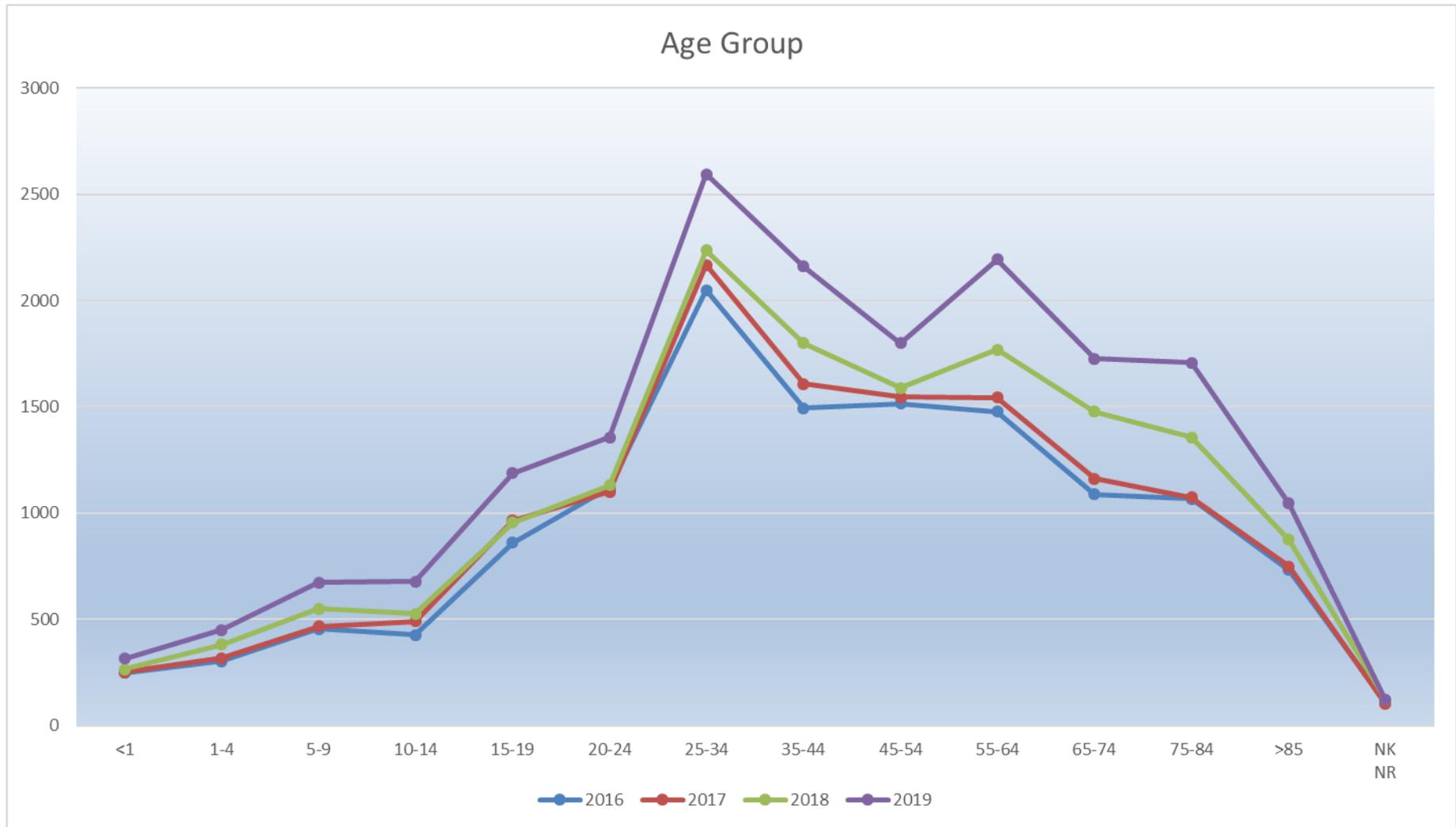


Figure 2: Cause of Injury

Cause of Injury	Total
Fall	6653
Motor Vehicle Accident	3689
Assault	2588
Motorcycle	761
Pedestrian	672
ATV Accident	443
Struck By or Against Object	417
Contact by Sharp Object	378
Machinery / Equipment Accident	378
Pedal Cycle Accident	328
Animal Bite / Contact / Rider	314
Firearm Discharge	259
Caught, Crushed, Pinched	256
Suicide or Self Inflicted Injury	209
Acc Struck by Person	151
Other	137
Burns, Fire, Flame, Explosion, Smoke	124
Abuse or Neglect	105
Transport Accident	105
Contact Hot Food or Object	78
Overexertion	45
Sport / Activity Accident	42
Legal Intervention	27
Foreign Body	24
Electrical Accident	16
Watercraft Accident	15
Slipping, Tripping and Stumbling	13
Diving Drowning or Submersion	10
Aircraft Accident	5
NK/NR	4
Railway Accident	4
Choking	2
Weather Accident	2
<b>Total</b>	<b>18254</b>

Fall by Age	Total	Percent (%)
Geriatric (>64)	3605	54.19
Adult (15-64)	2243	33.71
Pediatric (0-14)	771	11.59
NK/NR	34	0.51
<b>Grand Total</b>	<b>6653</b>	<b>100</b>

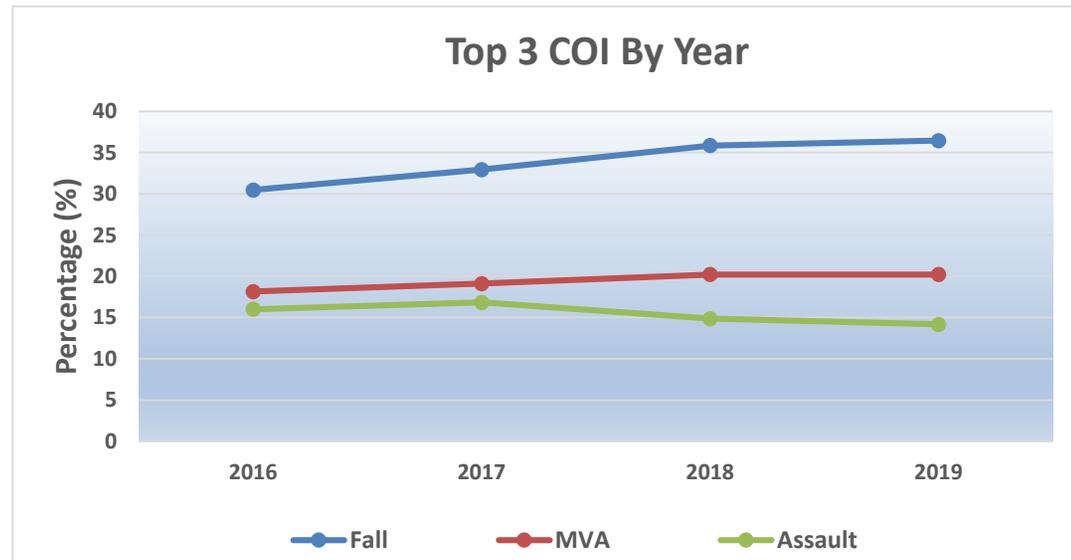
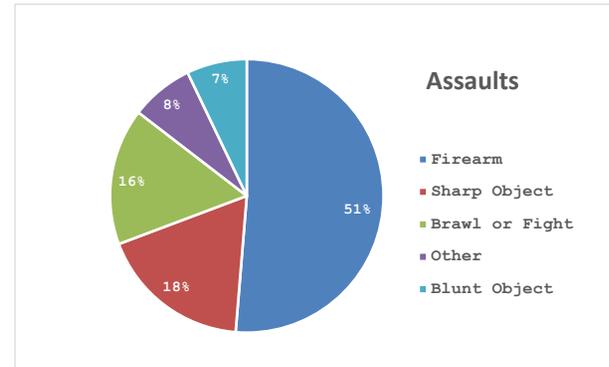


Figure 3: Cause of Injury by Mortality

A total of 5.66% of all trauma registry patients expired with 94.34% surviving.

Cause of Injury	Deaths
Fall	190
Motor Vehicle Accident	164
Assault	151
Suicide or Self Inflicted Injury	58
Pedestrian	51
Motorcycle	39
Firearm Discharge	14
Other	13
ATV Accident	11
Burns, Fire, Flame, Explosion, Smoke	8
Pedal Cycle Accident	8
Diving Drowning or Submersion	6
Struck By or Against Object	6
Legal Intervention	4
Abuse or Neglect	4
Machinery / Equipment Accident	3
Transport Accident	2
Animal Bite / Contact / Rider	2
Aircraft Accident	1
Overexertion	1
<b>Total</b>	<b>736</b>

Fall by Age	ISS Score Range					Total
	0	1-8	9-15	16-24	>24	
Pediatric (0-14)					1	1
Adult (15-64)		4	5	11	18	38
Geriatric (>64)	2	16	51	21	61	151
<b>Total</b>	<b>2</b>	<b>20</b>	<b>56</b>	<b>32</b>	<b>80</b>	<b>190</b>

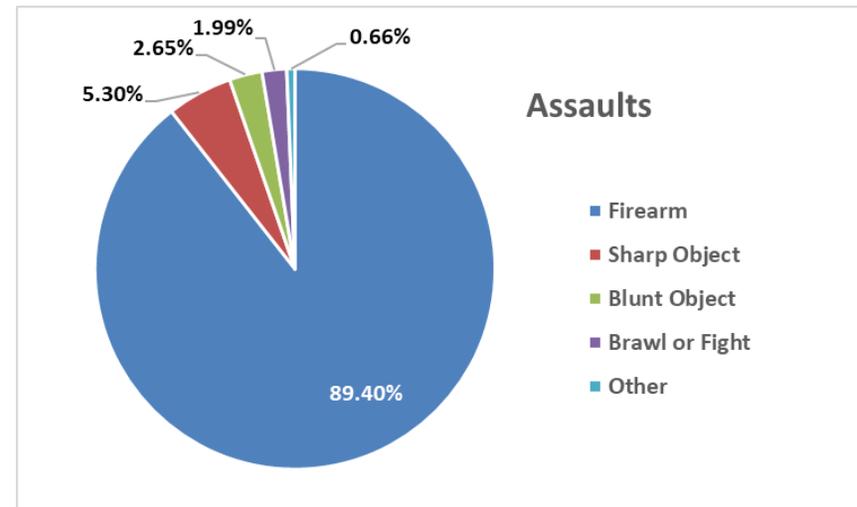
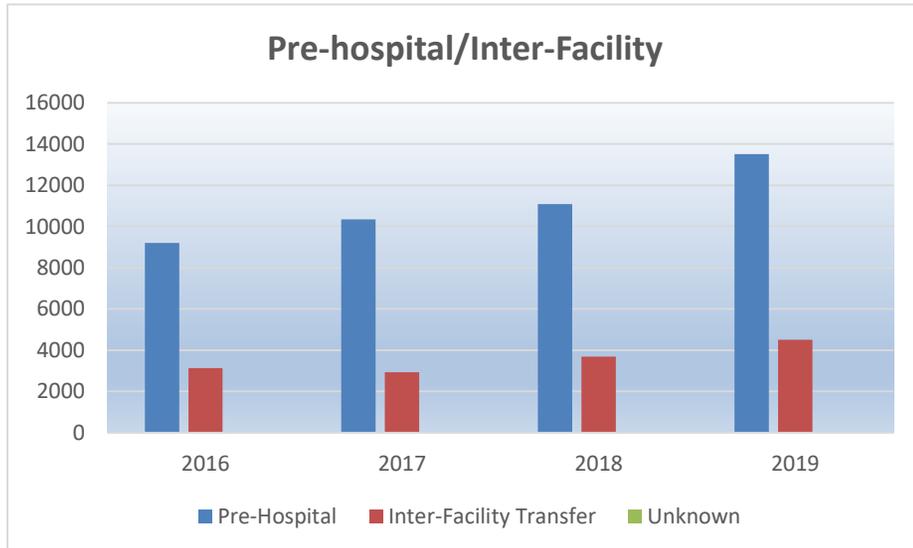


Figure 4: Received Pre-Hospital or by Transfer

Patients reported as received pre-hospital or transferred from another acute care facility. Patients transferred from a private physician office, stand-alone ambulatory surgery center, or delivered to hospital by a non-EMS transport are not considered an inter-facility transfer. Outlying facilities that provide emergency services or that are utilized to stabilize a patient are considered acute care facilities.

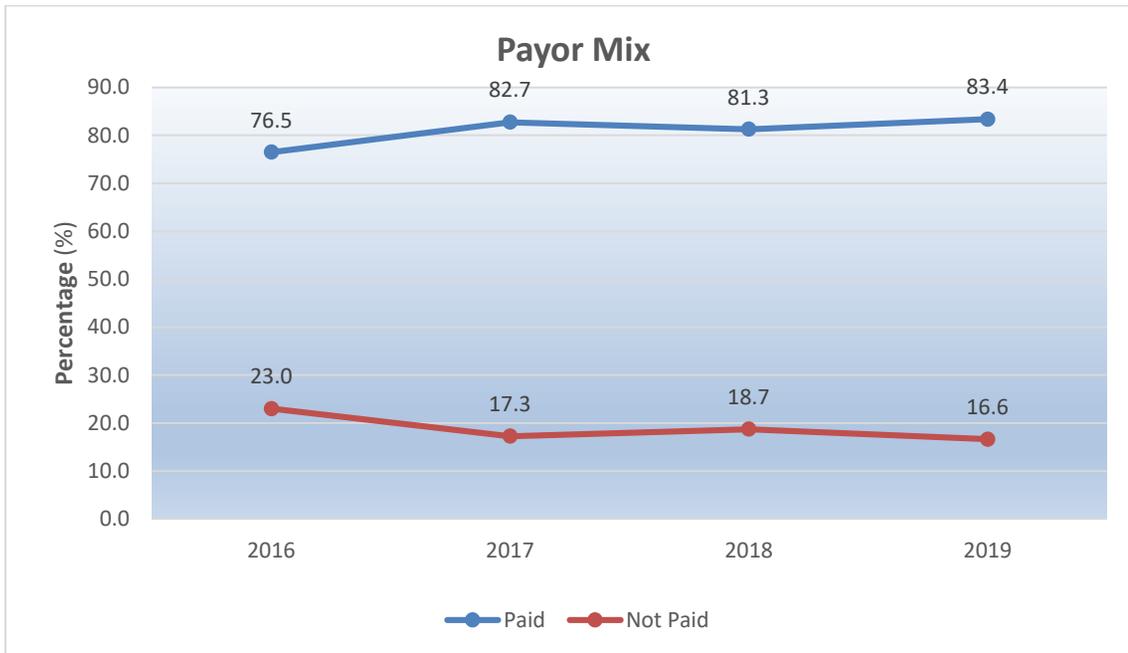
Received By	2016	2017	2018	2019
Pre-Hospital	9202	10339	11082	13505
Inter-Facility Transfer	3126	2935	3688	4499
Unknown	0	0	1	5
<b>Total</b>	<b>12328</b>	<b>13274</b>	<b>14771</b>	<b>18009</b>



## Figure 5: Payor Mix

Not Paid is inclusive of Primary Payment listed as Other, Not Known, Self-Pay, or Not Billed.

Paid/Not Paid	2016	2017	2018	2019
Not Paid	2999	2322	2797	2996
Paid	9764	11128	12135	15013
<b>Total</b>	<b>12763</b>	<b>13450</b>	<b>14932</b>	<b>18009</b>



## Figure 6: Payor Type

Payor type for paid patients. Data for 2016 and 2017 include Children’s Hospital New Orleans, which was not included in previous years.

Paid Method	2016	2017	2018	2019
Private/Commercial Insurance	3173	2990	3182	4089
Medicaid	3547	4771	4928	6158
Medicare	2871	3228	3806	4494
Other Government	173	139	219	272
<b>Total</b>	<b>9764</b>	<b>11128</b>	<b>12135</b>	<b>15013</b>

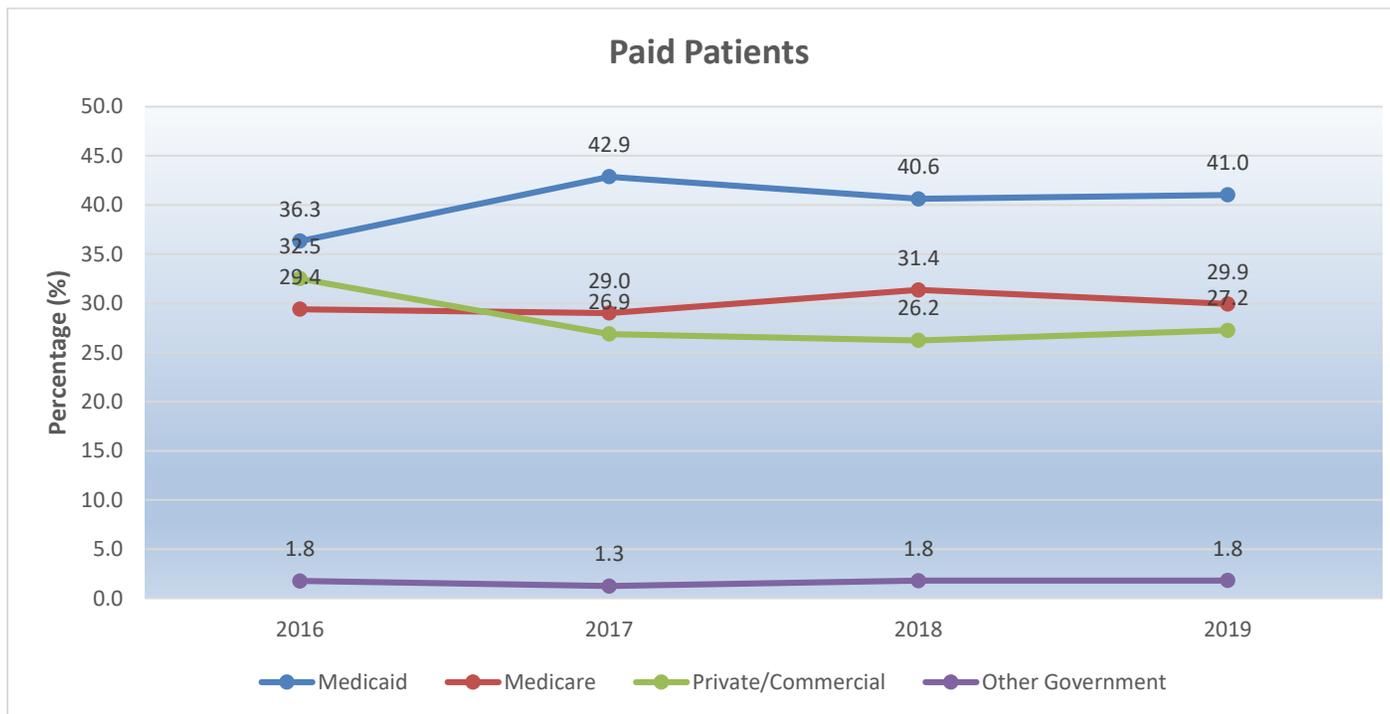


Figure 7: Hospital Average/Median Length of Stay

The hospital length of stay (LOS) is calculated by using the admit time/date and the discharged time/date. For the purpose of this report days were adjusted based on each partial or full day is measured as one calendar day. Patients admitted and discharged on same day count as 0.

Year	Average Hospital LOS	Median
2016	5.38	3
2017	5.41	3
2018	5.33	3
2019	4.90	2

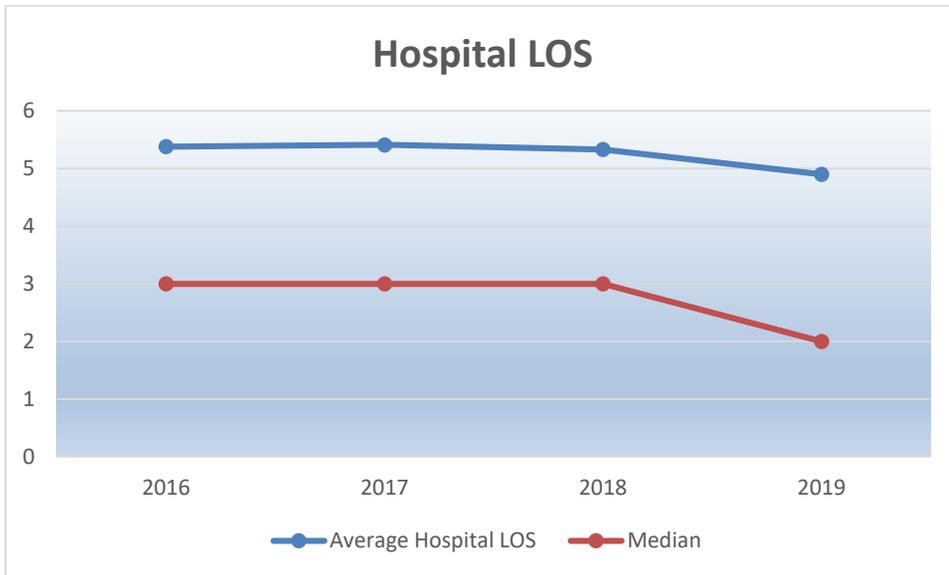
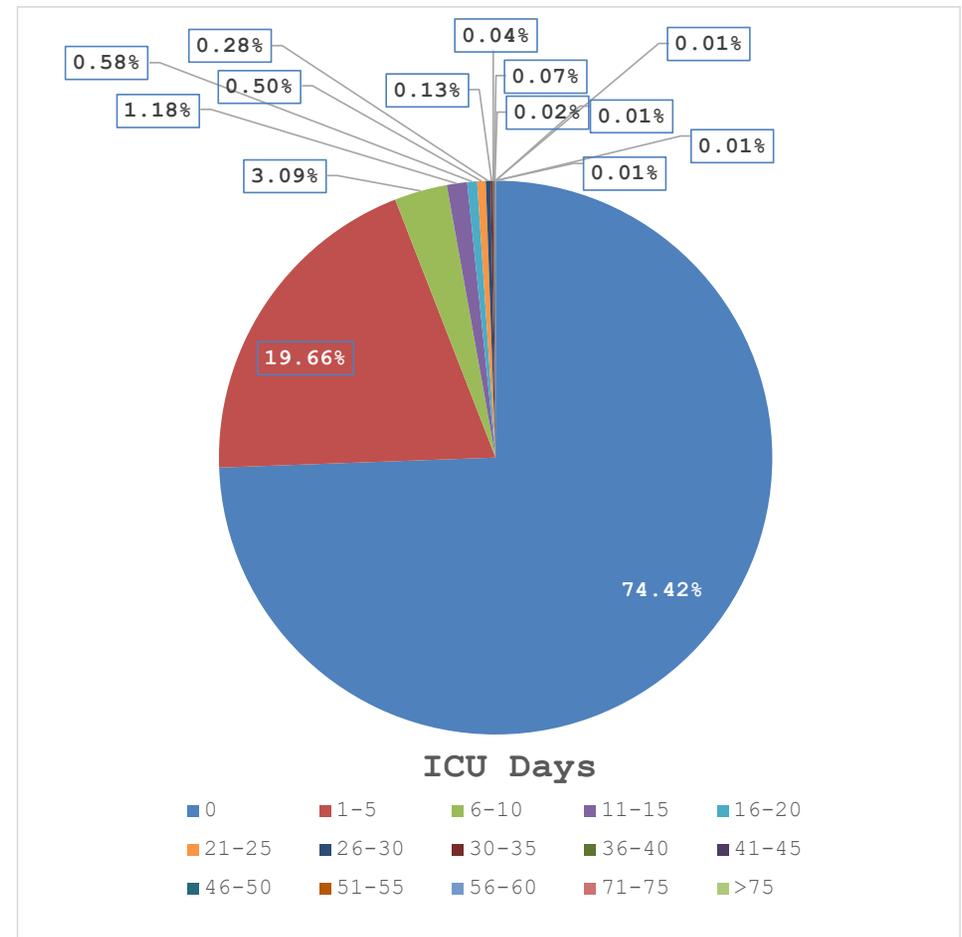


Figure 8: ICU Days

The intensive care unit (ICU) length of stay is the cumulative amount of time spent in ICU. Each partial or full day is measured as one calendar day.

ICU Days	Total	Percent (%)
0	13403	74.42
1-5	3541	19.66
6-10	556	3.09
11-15	213	1.18
16-20	104	0.58
21-25	90	0.50
26-30	50	0.28
30-35	24	0.13
36-40	7	0.04
41-45	12	0.07
46-50	3	0.02
51-55	2	0.01
56-60	1	0.01
71-75	1	0.01
>75	2	0.01
<b>Total</b>	<b>18009</b>	<b>100</b>

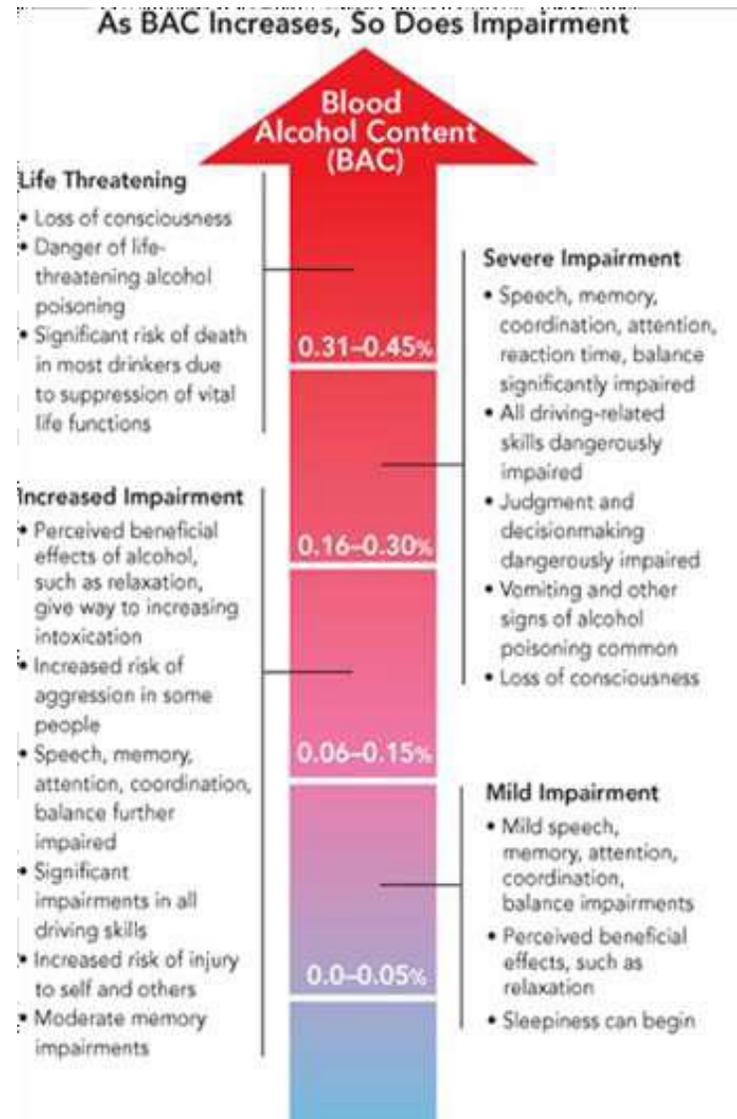
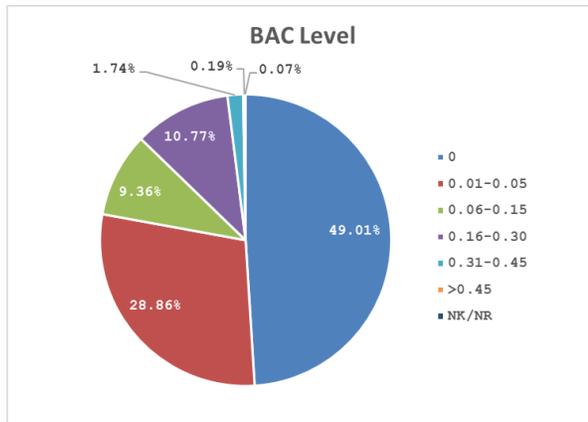


## Figure 9: Blood Alcohol Testing

Of the 18,109 patients in the 2019 data, 51% were not tested, 49% were tested. Of the patients tested, 1958 had a BAC  $\geq$  0.08% (above legal limit).

Tested	Total	Percent (%)
Yes	8896	49.40
No	9101	50.54
NK/NR	12	0.07
<b>Total</b>	<b>18009</b>	<b>100</b>

Tested Patients	
BAC_Level	Total
0	4360
0.01-0.05	2567
0.06-0.15	833
0.16-0.30	958
0.31-0.45	155
>0.45	17
NK/NR	6



## Figure 10: Drug Screening

Patients reported by based on drug screening. Of the 18,009 patients in the 2019 data, 59.53% were not tested, 16.88% tested negative, and the remaining 23.59 % tested positive for drugs.

Drug Screening	Total	Percent
Not Tested	10721	59.53%
None	3040	16.88%
Positive for Single Drug	2394	13.29%
Positive for Multiple Drugs	1781	9.89%
Not Known/Not Recorded	73	0.41%
<b>Total</b>	<b>18009</b>	<b>100%</b>

Drug	Total	Percent (%)
<b>THC (Cannabinoid)</b>	2047	30.73
<b>OPI (Opioid)</b>	1795	26.95
<b>BZO (Benzodiazepines)</b>	1039	15.60
<b>AMP (Amphetamine)</b>	903	13.56
<b>COC (Cocaine)</b>	621	9.32
<b>BAR (Barbiturate)</b>	71	1.07
<b>mAMP (Methamphetamine)</b>	59	0.89
<b>MTD (Methadone)</b>	42	0.63
<b>Other Evidence of Drugs</b>	26	0.39
<b>PCP (Phencyclidine)</b>	22	0.33
<b>OXY (Oxycodone)</b>	17	0.26
<b>MDMA (Ecstasy)</b>	12	0.18
<b>TCA (Tricyclic Antidepressant)</b>	7	0.11

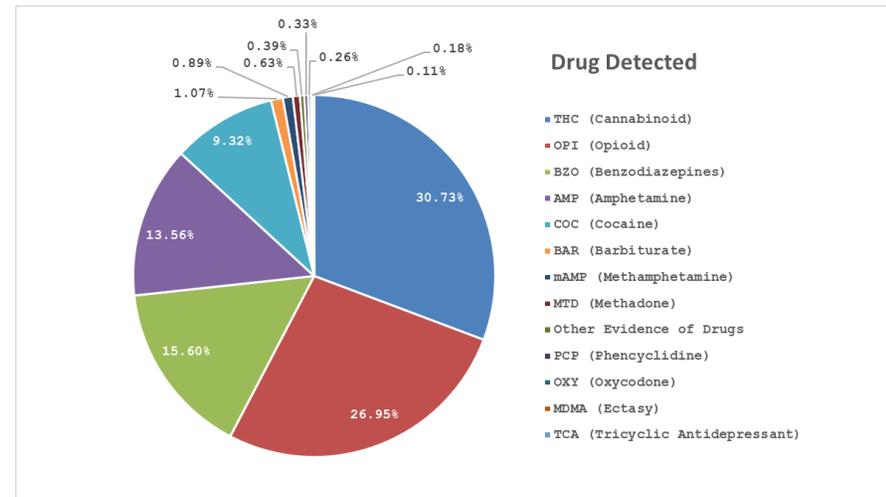
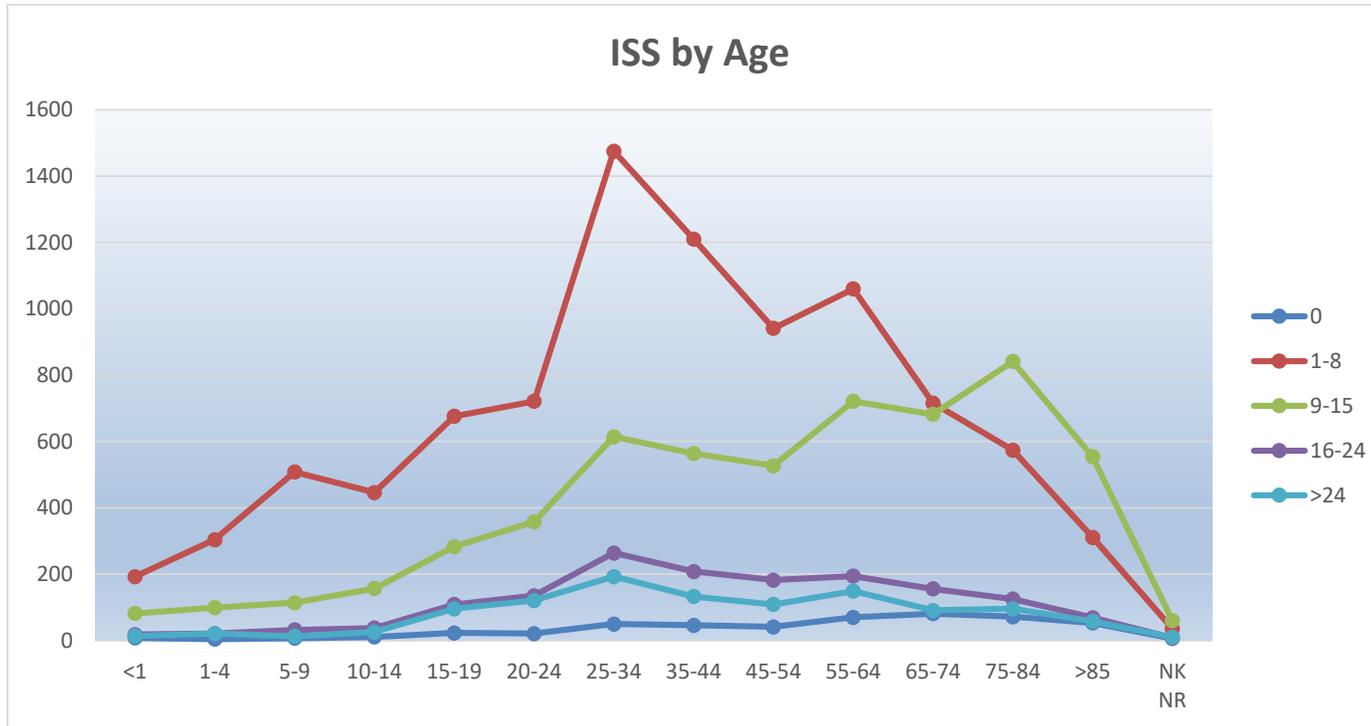


Figure 11: ISS by Age

Patients reported by age group and ISS score. The Injury Severity Score (ISS) is a system for numerically stratifying injury severity. The ISS system has a range of 1-75 and risk of death increases with a higher score. NTDB categorizes ISS 1-8 as Minor; 9-15 as Moderate; 16-24 as Severe; and greater than 24 as Very Severe.



Year	Mean ISS Score		
	All Trauma Facility	Level I and II	Level III only
2016	7.46	7.42	8.50
2017	8.31	8.32	8.21
2018	8.75	8.82	8.11
2019	8.43	8.71	6.75

Figure 12: Total Patients in Registry by Year / Deaths Percent by Year

In 2016 there were 9 facilities reporting. In 2017 the number of facilities reporting increased to 10. Death percent includes patient that arrived to ED without signs of life.

